4th Infantry Division
"Steadfast and Loyal"

AGENDA

Division Mission / Road to War

DAWE Hypothesis

How We Fight

Exercise Construct

Collective Insights

DTLOMS Implications

DIVISION MISSION

4th INFANTRY DIVISION (MECHANIZED) MAINTAINS BALANCED READINESS, DEPLOYS ON-ORDER, FOR COMMITMENTS TO OPERATIONAL MISSIONS, FIGHTS AND WINS UPON ARRIVAL, PREPARES FOR AND CONDUCTS FORCE XXI TRAINING; REORGANIZES AS A COMBAT CAPABLE DIGITIZED DIVISION BY 4th QUARTER, FY00.

EXPERIMENTAL FORCE

TRAINED / READY

OPERATIONAL FORCE

REORGANIZE

TESTS AND EVALS

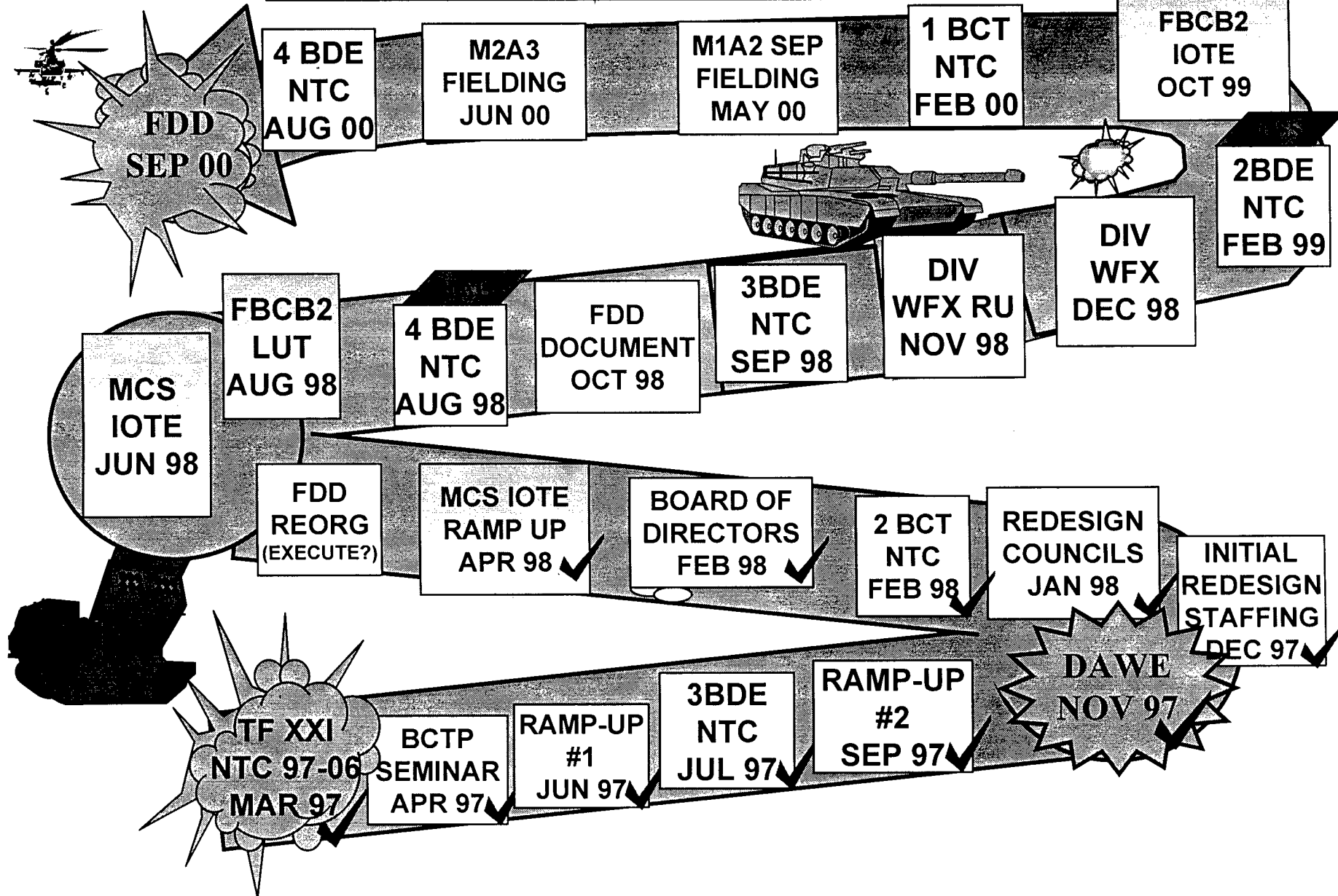- MCS IOTE   - FBCB2 LUT
- BCIS   - M1A1D
- M2A2 ODS   - LINEBACKER
- M2A3 IOTE   - LAND WARRIOR

- REDESIGN (CHD)?
  - DECISION: MAR 98

EXECUTE ON ORDER

- NTC 98-05   Completed
- NTC 98-10 (Early Entry)
- NTC 99-01
- CORPS WARFIGHTER

ROAD TO FDD

FDD
SEP 00

4 BDE
NTC
AUG 00

M2A3
FIELDING
JUN 00

M1A2 SEP
FIELDING
MAY 00

1 BCT
NTC
FEB 00

FBCB2
IOTE
OCT 99

2BDE
NTC
FEB 99

DIV
WFX
DEC 98

FBCB2
LUT
AUG 98

4 BDE
NTC
AUG 98

FDD
DOCUMENT
OCT 98

3BDE
NTC
SEP 98

DIV
WFX RU
NOV 98

MCS
IOTE
JUN 98

FDD
REORG
(EXECUTE?)

MCS IOTE
RAMP UP
APR 98

BOARD OF
DIRECTORS
FEB 98

2 BCT
NTC
FEB 98

REDESIGN
COUNCILS
JAN 98

INITIAL
REDESIGN
STAFFING
DEC 97

DAWE
NOV 97

TF XXI
NTC 97-06
MAR 97

BCTP
SEMINAR
APR 97

RAMP-UP
#1
JUN 97

3BDE
NTC
JUL 97

RAMP-UP
#2
SEP 97

54

DAWE HYPOTHESIS

IF:

The Force XXI division operational and organizational concept enables *information dominance* and *enhanced battle command* capabilities…..

THEN:

Increases in *lethality*, *survivability*, *sustainability*, and *tempo* will be gained across the force.

55

DIVISION XXI AWE

HYPOTHESIS

IF... THE FORCE XXI DIVISION OPERATIONAL AND ORGANIZATIONAL CONCEPT ENABLES INFORMATION DOMINANCE AND ENHANCED BATTLE COMMAND THEN...INCREASES IN LETHALITY, SURVIVABILITY, SUSTAINABILITY, AND TEMPO WILL BE GAINED ACROSS THE FORCE.

OBJECTIVES

- DEVELOP AN EASILY TAILORABLE, MODULAR FORCE DESIGNED AROUND INFORMATION.
- DEVELOP THE TACTICS, TECHNIQUES AND PROCEDURES (TTPs) FOR AN INFORMATION AGE FORCE.
- DETERMINE THE IMPLICATIONS OF TTPs, ORGANIZATIONS AND TECHNOLOGICAL ENHANCEMENTS ON SOLDIERS/LEADERS.
- SIMULTANEOUSLY EXPERIMENT AND INTEGRATE MATERIEL, TRAINING AND ORGANIZATIONAL CHANGES.
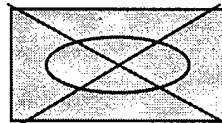- EXPERIMENT WITH ENHANCED BATTLE COMMAND CAPABILITIES.

S6

O & O SYSTEM LIST

BATTLE COMMAND
BATTLEFIELD VIDEO TELECONFERENCE
BATTLEFIELD PLANNING & VISUALIZATION
TRANSACTIAL DATABASE (DISTRIBUTED)
SECURE HIGH BAND WIDTH COMMS
BATTLE COMMAND
"ON-THE-MOVE"

XX

TRAIN/SUST RQMTs
CSTAR at CTCs
CBS SSMs
BATTLESTAFF COFT (CTSF)
CONTRACTOR SPT FUNDING
HOMESTATION SPT NETWORK:
- ABCS/GCSS-A

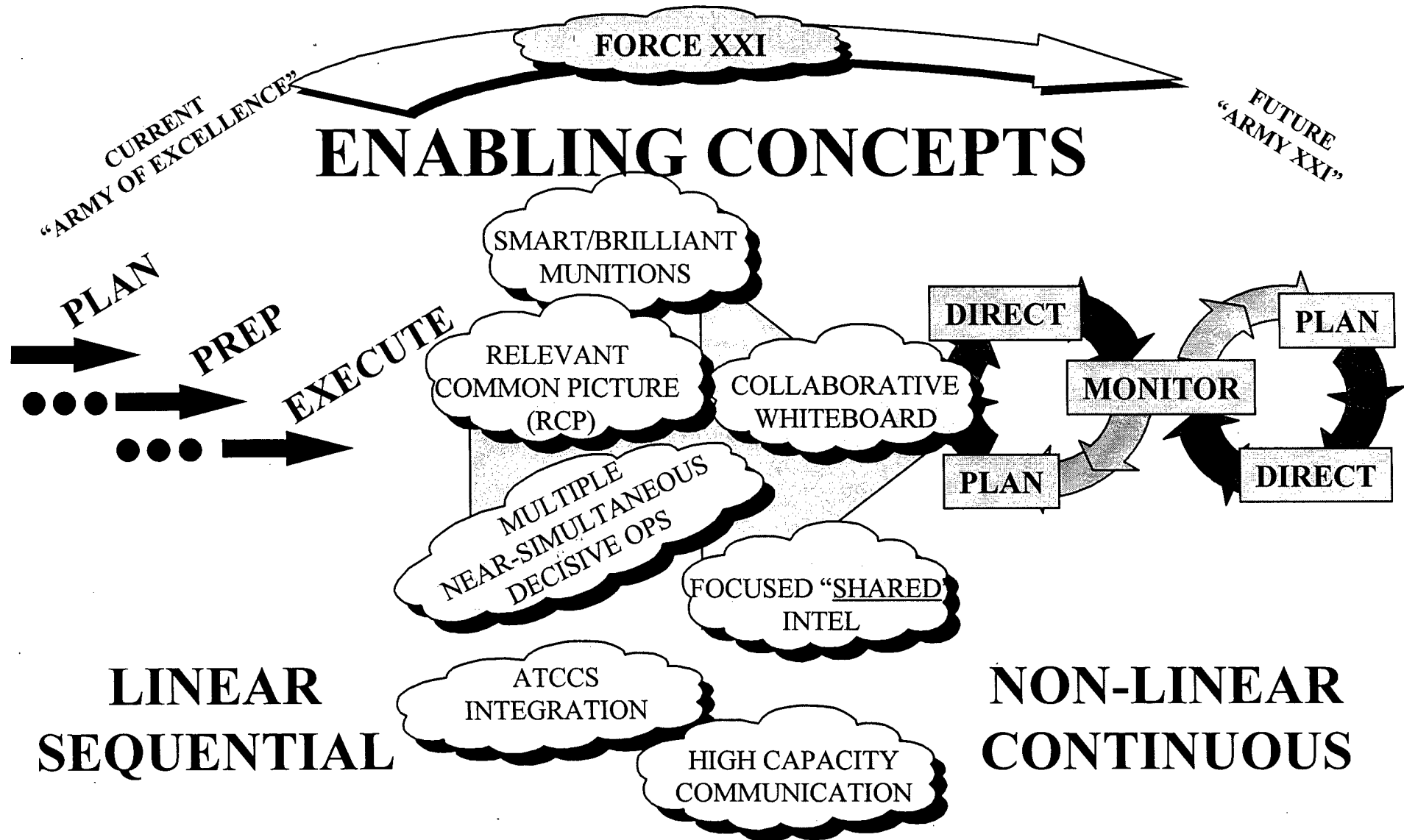| MANEUVER	INTEL	FIRE SPT	ADA	MOB / SURV	LOGISTICS	C2
✓ MCS/P	✓ ASAS	✓ AFATDS	✓ FAADC2	✓ DTSS	✓ CSSCS	✓ SINCGARS-SIP
✓ FBCB2	X TUAV	✓ MLRS	X AVENGER	X *IMF (RAPTOR	✓ MTS	✓ EPLRS-VHSIC
✓ KIOWA	✓ CGS/GSM	X STRIKER	(Slew-To-Cue)	X M93A1 FOX	X PLS	✓ Data Radio
X AH64-D	X AQF	X LLDR	✓ LINEBACKER	X WOLVERINE	X FRS-H	✓ WIN
X MOBILE C2	✓ TROJAN	✓ PALADIN	✓ SENTINEL	X *GRIZZLY	✓ *GCSS-A	✓ ATM/FSEN
X C2V	*JSTARS*	X Q-37 BLK II	*JTIDS*	X *JWRS	*SYSTEMS MECHANIC*	✓ HCLOS
? LRAS3		*LONG RANGE SMART MUNITIONS*				✓ SMART-T
✓ M1A2SEP	X I-REMBASS					✓ ISYSCON
✓ M2/M3A3	✓ IMETS				X *TIGER	✓ SPITFIRE
X * RAH-66	✓ GBCS-L	X MFCS			✓ SIDPERS3	✓ GBS
X *FSCS		X BFIST			X MC4	✓ *WIRELESS LAN
✓ AMPS		X CRUSADER	* Not available in FY00		X *DVE	X *FDR
✓ LW						X *ACN
						✓ *DMS
						✓ *PCS

ABOVE THE LINE: O&O WITH ACCEPTABLE RISK AND REDUCED CAPABILITY
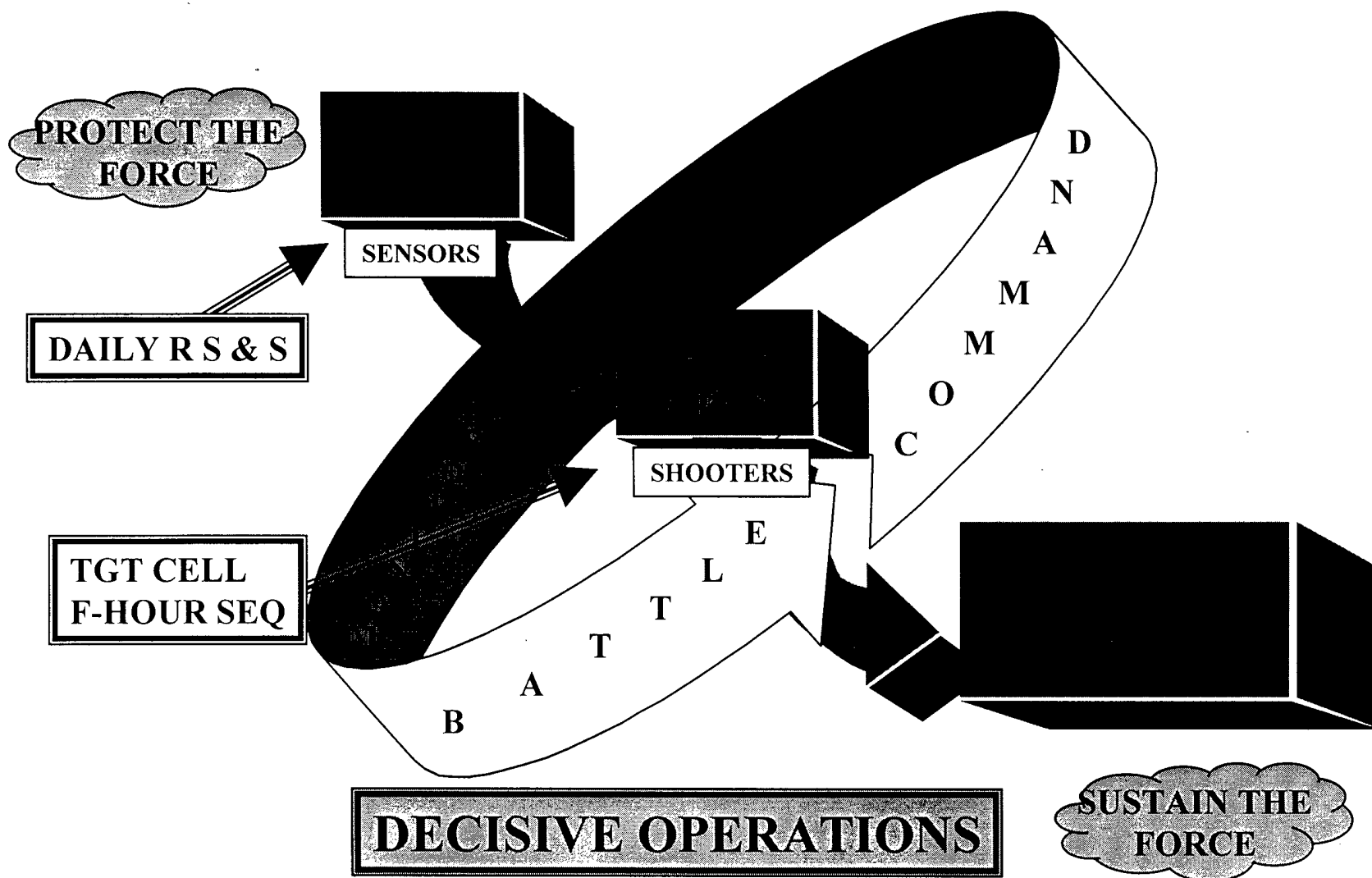**BELOW THE LINE:** REQUIRED FOR FULL O&O CAPABILITY
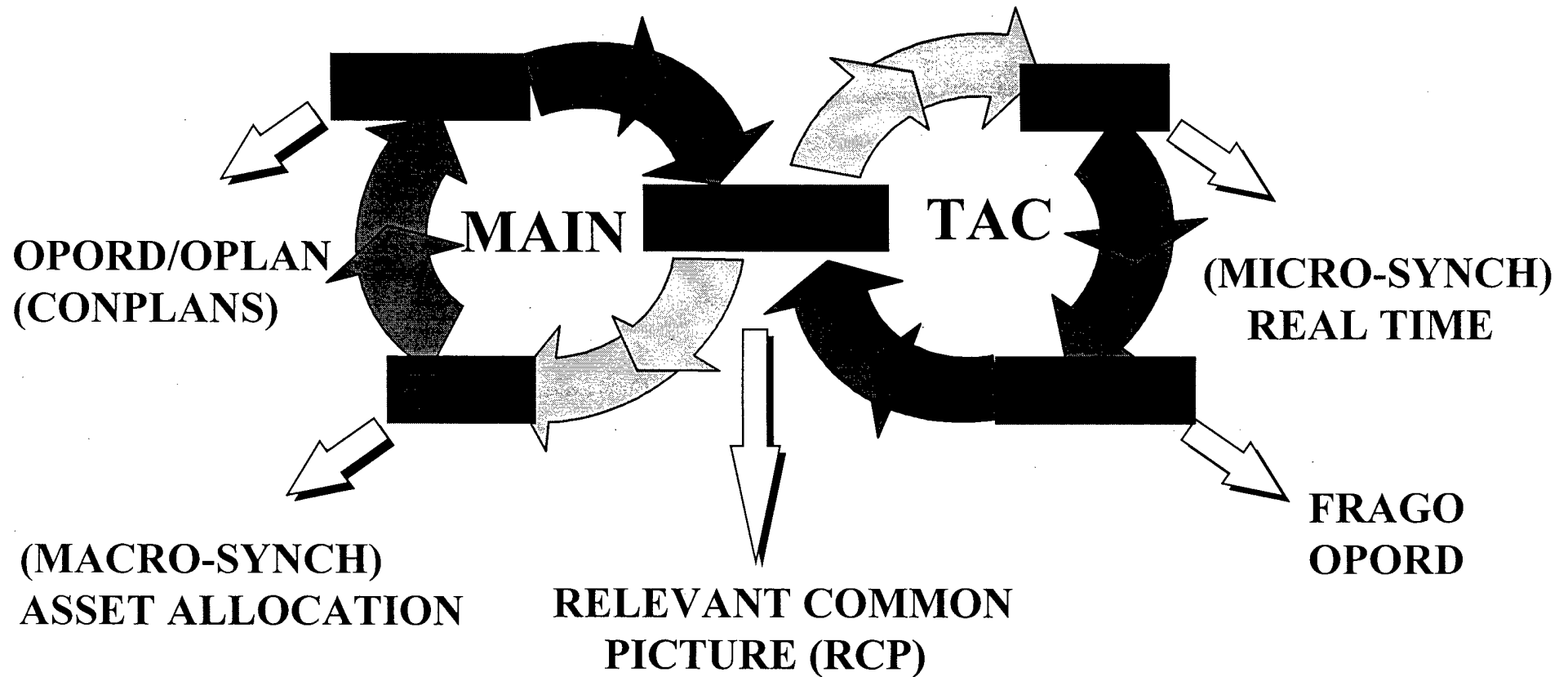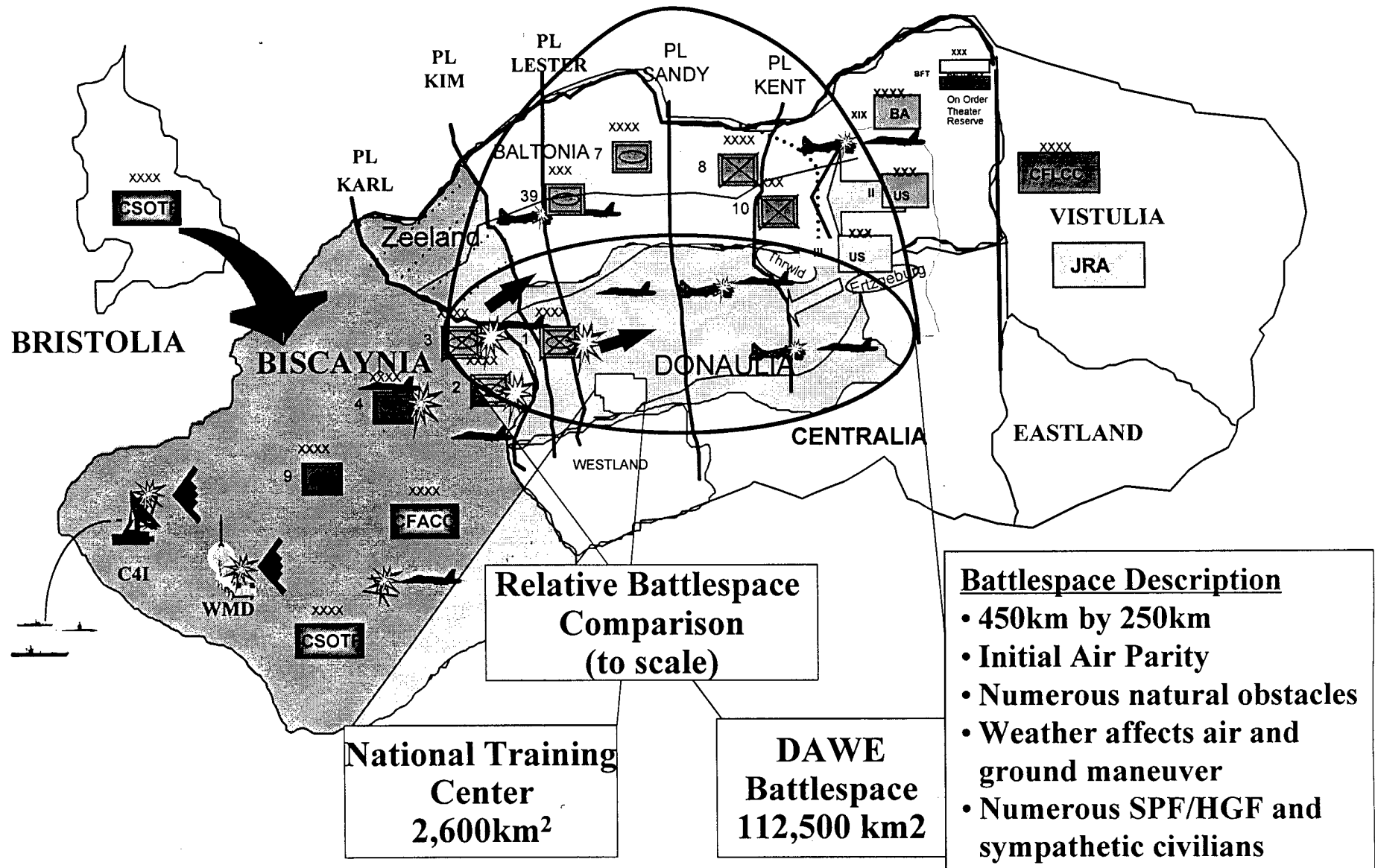
FORCE STRUCTURE

FORCE XXI HEAVY DIVISION DESIGN

CAV SQDN
Trp has 8 Helo (Vice 12)
NBC Recon Plt Added

AVN Bde
1 AHB vice 2
Added LUH Plt to GSAB

MP Company
One Less GS Plt
3 Sqds per Plt

DISCOM
Adds all
Maneuver
  Units CSS
Multi-functional
  FSC in FSB

SIGNAL BN
GBS-BADD

MI Bn
No LRSU-D
Larger ACE
UAV\GBCS\AQF

BDE HQ
Adds Bde Recon
CSS Moved
Larger TAC

ADA BN
12 Avengers Added
BSFV-E Crew reduced to 4

ARMOR BN
CAMB
45 Platforms

MECH BN
2x9 +5
Minus AT Co

ARTILLERY
Cannon Bn 3x6
MLRS Bn 2x9+TAB
HHB+SVC to HHS
2 R FA BDES
2MLRS,1CANNON

ENG BDE
No ENG BDE
Larger DIV staff

EAD/RC Augmentation

58

HOW WE FIGHT

FORCE XXI

ENABLING CONCEPTS

CURRENT "ARMY OF EXCELLENCE"

FUTURE "ARMY XXI"

PLAN

PREP

EXECUTE

SMART/BRILLIANT MUNITIONS

RELEVANT COMMON PICTURE (RCP)

COLLABORATIVE WHITEBOARD

MULTIPLE NEAR-SIMULTANEOUS DECISIVE OPS

FOCUSED "SHARED" INTEL

ATCCS INTEGRATION

HIGH CAPACITY COMMUNICATION

DIRECT

MONITOR

PLAN

PLAN

DIRECT

LINEAR SEQUENTIAL

NON-LINEAR CONTINUOUS

59

HOW WE FIGHT

PROTECT THE FORCE

SENSORS

DAILY R S & S

TGT CELL
F-HOUR SEQ

SHOOTERS

BATTLE

COMMAND

DECISIVE OPERATIONS

SUSTAIN THE FORCE

60

HOW WE FIGHT

MAIN

TAC

OPORD/OPLAN
(CONPLANS)

(MACRO-SYNCH)
ASSET ALLOCATION

RELEVANT COMMON
PICTURE (RCP)

(MICRO-SYNCH)
REAL TIME

FRAGO
OPORD

61

EXERCISE CONSTRUCT

Relative Battlespace Comparison (to scale)

National Training Center 2,600km²

DAWE Battlespace 112,500 km2

Battlespace Description
- 450km by 250km
- Initial Air Parity
- Numerous natural obstacles
- Weather affects air and ground maneuver
- Numerous SPF/HGF and sympathetic civilians

Map labels: PL KIM, PL LESTER, PL SANDY, PL KENT, PL KARL, BALTONIA, Zeeland, BRISTOLIA, BISCAYNIA, DONAULIA, CENTRALIA, WESTLAND, EASTLAND, VISTULIA, JRA, CSOT, FACC, C4I, WMD, CFLCC, BA, US, On Order Theater Reserve, Thr Wld, Erzgeburg
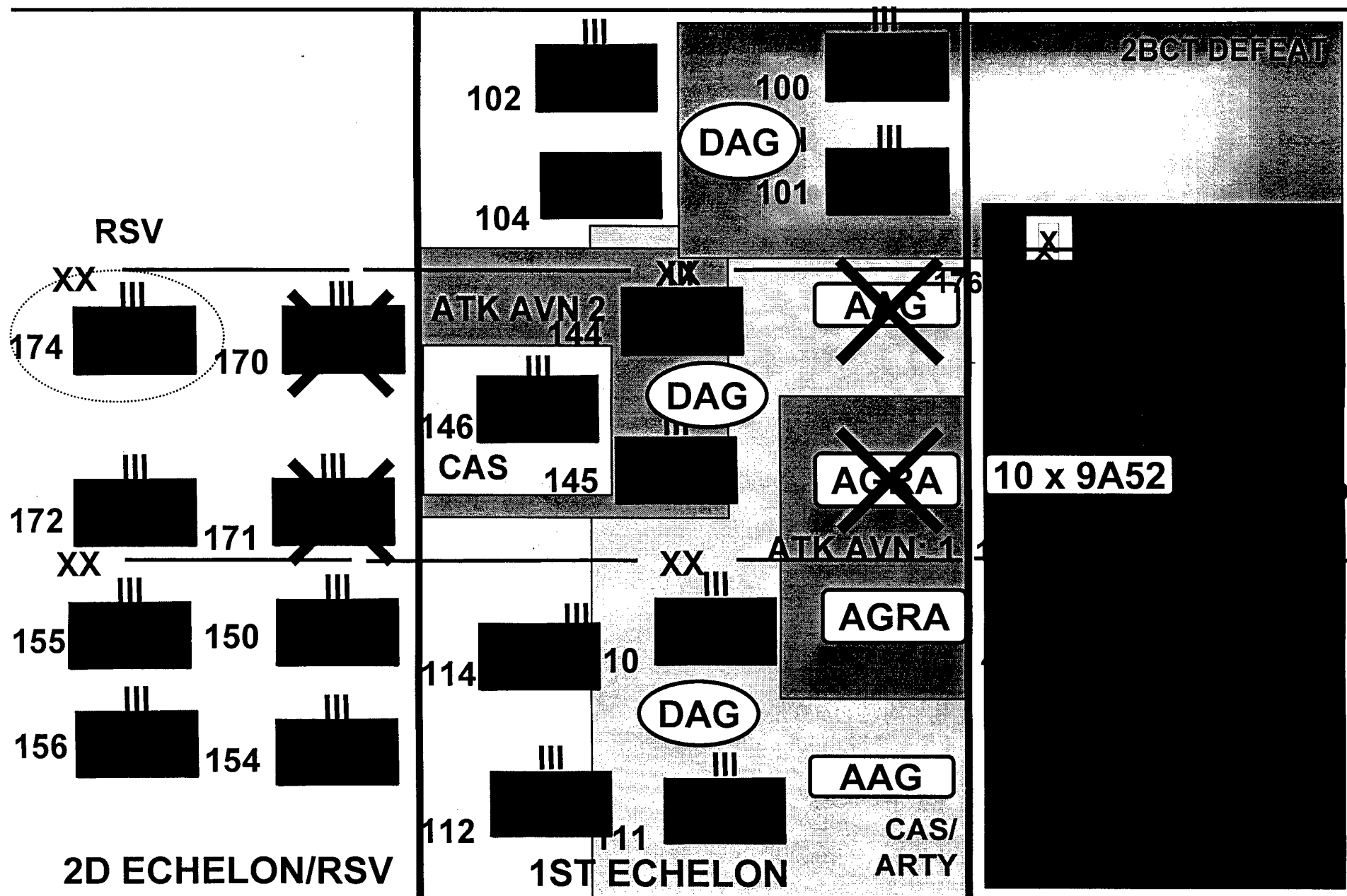
"There is an evolving relationship among reconnaissance, fires, and maneuver which amplifies the effects and benefits of each... reconnaissance is electronic (JSTARS), human assisted (UAV), and human(Scouts)... each cued by the other... with our knowledge of the enemy improving in granularity from electronic to human....

63

EXERCISE CONSTRUCT

PL SANDY
PL LANCE
PL KENT

PL LESTER
PL ADAM

PL KIM
PLSPIKE

PL KARL

HOF

FULDA

SCHWEINFURT
BAMBURG
BAYREUTH

FRANKFURT
WÜRZBURG

NURNBURG

PL LEON
STUTTGART

PL KENT

PL LANCE

INGOLSTADT

PL STEVE

PL SANDY

PLSPIKE
PL KIM
PL LESTER
PL ADAM

PL KARL

250 KMS

450 KMS

64

TASK ORGANIZATION

1 BCT

2 BCT

3 BCT

4 BDE

DIVISION

ATTACK STRATEGY

102

100

DAG

104

101

2BCT DEFEAT

RSV

XX

174

170

ATK AVN 2
144

XX

AAG

176

DAG

146

CAS   145

AGRA

10 x 9A52

172

171

XX

XX

ATK AVN 1

155   150

10

AGRA

114

DAG

156   154

112   111

AAG

CAS/
ARTY

2D ECHELON/RSV

1ST ECHELON

66

Maneuver systems protect and position fires forward extending their tactical reach. Maneuver systems also perform the necessary task of fixing enemy formations through positioning and direct fires so that indirect fires and attack aviation can destroy the enemy using ambush techniques which are becoming the defeat mechanisms of choice."

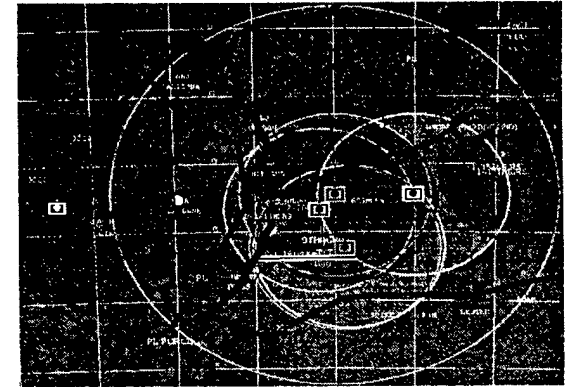*MG Wallace, CG 4ID*

THE RESULTS....

If you're looking for a bumper sticker, it might read:

"The **EXFOR Division** killed over twice the Enemy, in half the Time, over three times the Battlespace, with 25% fewer Combat Platforms using Information Age Technology."

Outcome of the fight **Matters but...** How it happened is **More Important!**
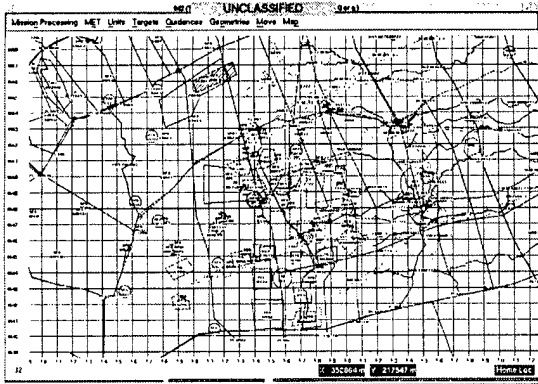
INSIGHTS
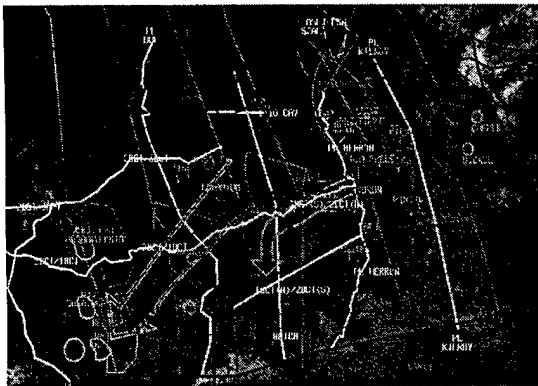
⇨ **WINNERS:**

- **Advanced Warfighting Experiment (AWE) Process**
- **ATCCS Integration (we've come a long way)**
- **Harnessing / Packaging / Processing Collaborative Information**
- **Organizational Designs (Ex.. Cmd and Attack Bn & RC FA Bde)**
- **Central Testing Support Facility (CTSF)**
- **Numerous BOS / Across DTLOMS Implications**
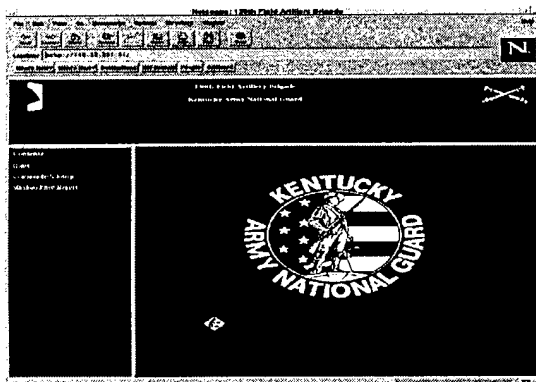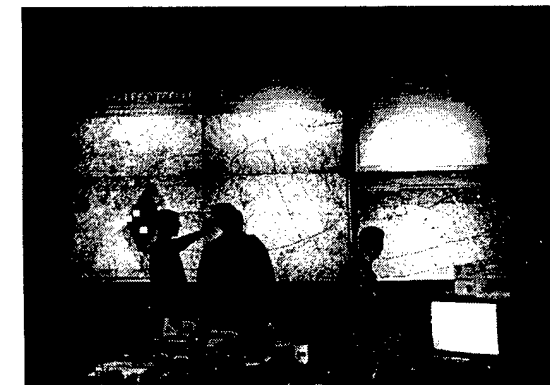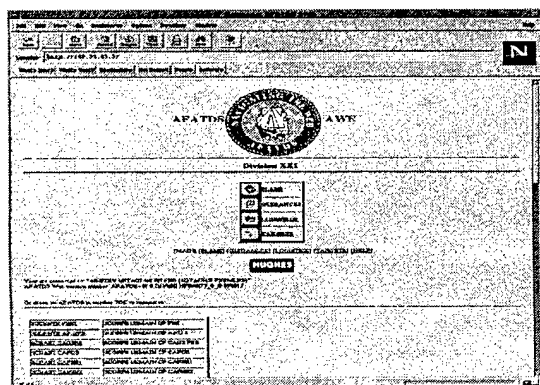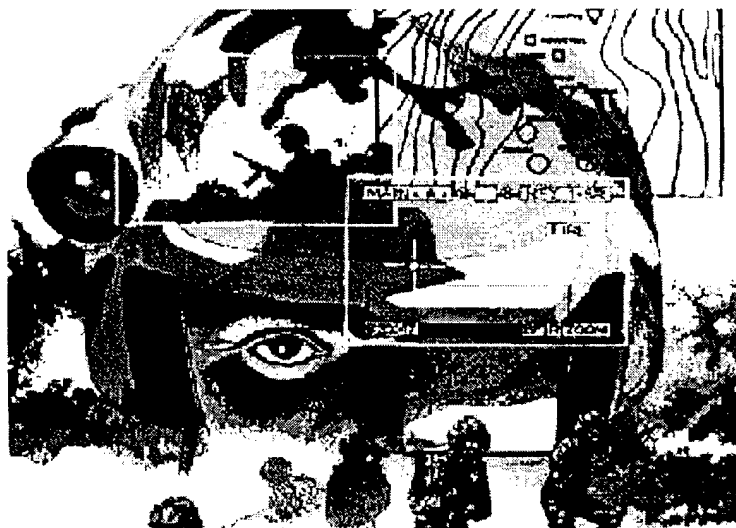
69

INSIGHTS

⇨ WINNERS:

- AWE Process
- ATCCS Integration
- Harnessing / Packaging /Processing Collaborative Information
- Organizational Designs (EX.. CM AND ATK BN and RC FA BDE)
- Central Training Support Facility (CTSF)
- Numerous BOS / Across DTLOMS Implications

⇨ **MATERIAL WINNERS:**

- **Battlefield Planning and Visualization Tool (BPV)**
- **Collaborative "White Board"**
- **Analysis Control Team (ACT)**
- **Extended Range Smart Munitions**
- **Army Missile Defense Work Station (AMDWS)**

70

INSIGHTS

⇨ WINNERS:
- AWE Process
- ATCCS Integration
- Harnessing / Packaging /Processing Collaborative Information
- Organizational Designs (EX.. CM AND ATK BN and RC FA BDE)
- Central Training Support Facility (CTSF)
- Numerous BOS / Across DTLOMS Implications

⇨ MATERIAL WINNERS:
- BPV
- Collaborative "White Board"
- ACT
- Extended Range Smart Munitions
- AMDWS

⇨ **STILL NEEDED:**
- **Mobile C2 Nodes / Platforms**
- **High Speed Capacity Commo**
- **Non Line of Sight Wide Area Network**

71

COLLECTIVE INSIGHTS
C2 AND BATTLE COMMAND

CAPABILITIES

- Technology and digitization
  - Collaborative VTC
  - Electronic Whiteboard
  - BPV
- Relevant Common Picture (RCP) via ATCCS

CHALLENGES

- C2 under demonstrated tempo
- Integrating and supporting "non-digitized" units
- Maintaining focus
  - Intelligence
  - Fires
  - Information Operations
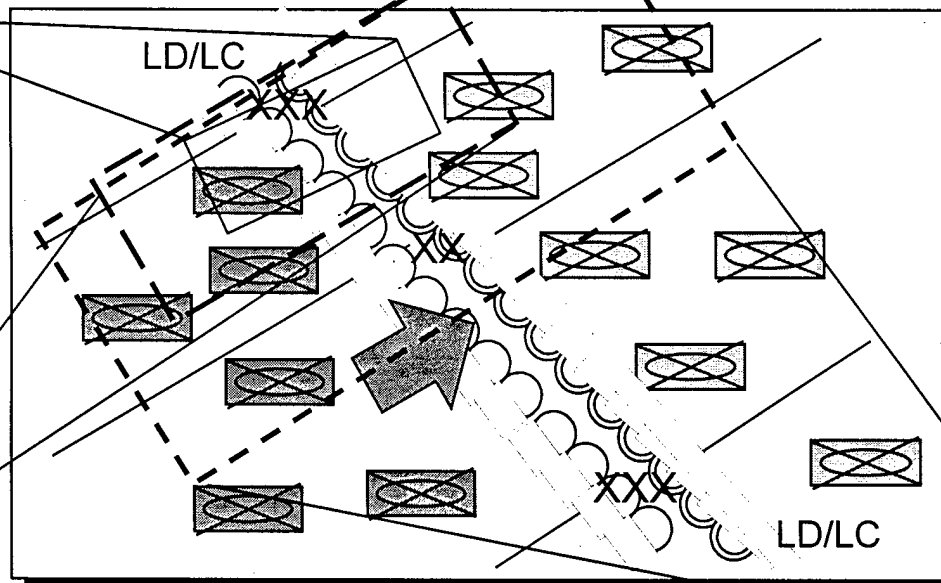
72

RELEVANT COMMON PICTURE
(RCP)

BN VIEW

BDE VIEW

LD/LC

LD/LC

DIV VIEW

Shared Situational Awareness

DISCOM VIEW DIV VIEW

73

COLLECTIVE INSIGHTS
MANEUVER
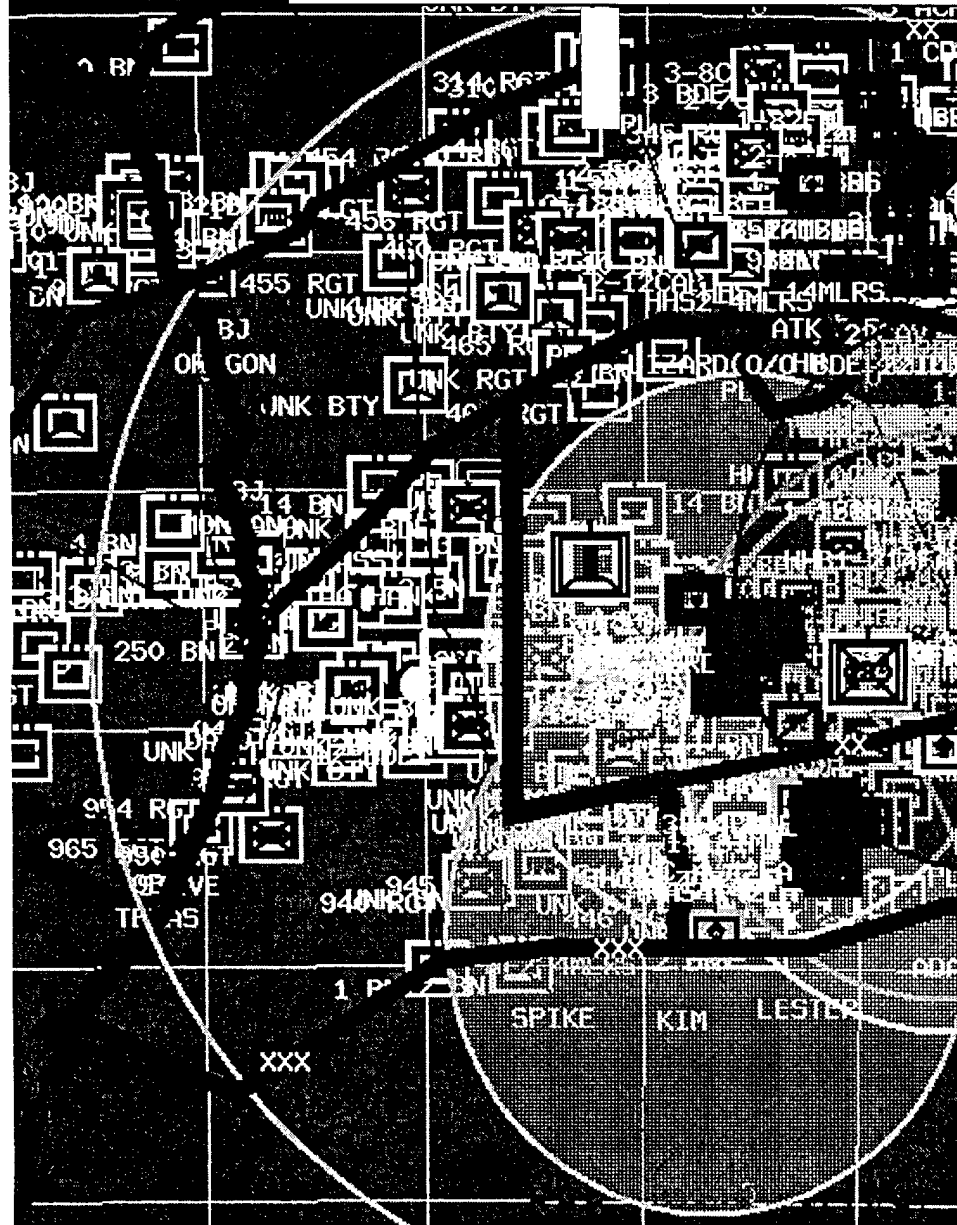
CAPABILITIES

•Maneuver protected / positioned fires then:

  -- fires, employing long range precision munitions, limited enemy's capability to maneuver which ...
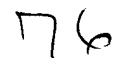
  -- set the conditions for decisive maneuver

CHALLENGES

•High Value Asset (HVA) protection (area vs. dedicated support)
•By pass criteria
•Dynamic "re-task" organization

75

COLLECTIVE INSIGHTS MANEUVER

FUTURE POTENTIAL

- "Find-kill-finish" engaging at max ranges, forcing a "red zone" fight on our terms
- Maneuver protecting fires and exploiting success
- Dedicated Fire Support (DS "like" fires) for Aviation
- Creation of a "digital-downlink" from an aerial platform

32

X: 175432 m Y: 102219 m

Home Loc

76

COLLECTIVE INSIGHTS INTELLIGENCE

CAPABILITIES

- DOCC linkages (via ATCCS) enabled real time detection and attack
- ELINT targeting procedures
- Greater INTEL range permits deeper maneuver / fires employment options

CHALLENGES

- Automating BDA and timely analysis
- Enemy attempts to degrade your Intel-Fires effort (ex. moving slower than J-Stars threshold)
- Sensors create vulnerabilities
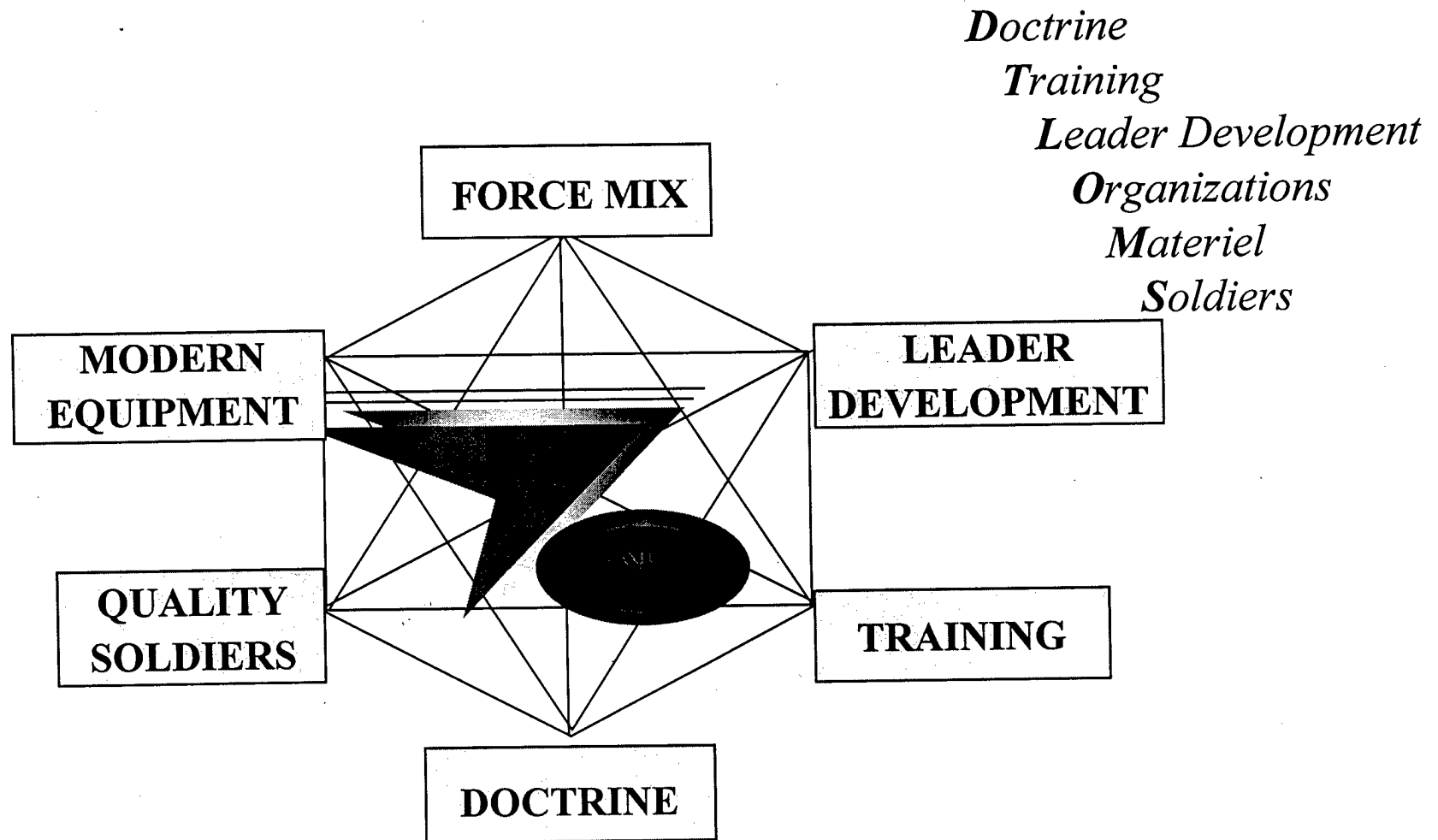- Targeting and Fires handoff

77

COLLECTIVE INSIGHTS INTELLIGENCE
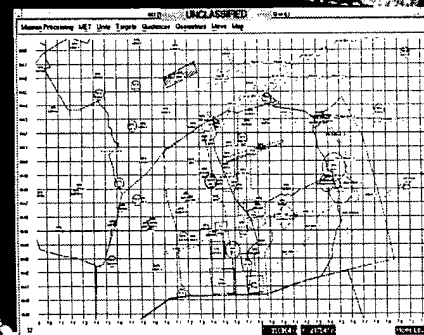
FUTURE POTENTIAL

- Digital reporting links (ex. AFATDS - ASAS)
- Quicker planning and execution in support of shaping operations

78

COLLECTIVE INSIGHTS
FIRE SUPPORT

CAPABILITIES

- Brilliant / Smart Munitions ranges and effects; forced us to rethink "how we fight"
- Improved sensor-shooter links
- Rapid target acquisition and speed of execution thru digitization

CHALLENGES

- Targeting vs. Collecting
- Targeting responsibilities between Division and BCTs
- Digital dissemination of FSCMs and Zones of Responsibilities (ZORs)

X: 350864 m   Y: 217547 m   Home Loc

32

79

DTLOMS IMPLICATIONS

Doctrine
Training
Leader Development
Organizations
Materiel
Soldiers

FORCE MIX

MODERN EQUIPMENT

LEADER DEVELOPMENT

QUALITY SOLDIERS

TRAINING

DOCTRINE

80

DTLOMS IMPLICATIONS

MATERIEL
- UAV& JSTARS
- M270A1 MLRS
- Crusader
- Smart munitions
- Block II Radar
- Apache Longbow
- Commanche
- A2C2S
- CP Platform

ORGANIZATIONS
- CAB (45 systems)
- Div Command / Attack Bn
- BRT Striker Platoon
- FSC (centralized log)
- RC "habitual association"
- ACE enablers
- Dedicated contractor support
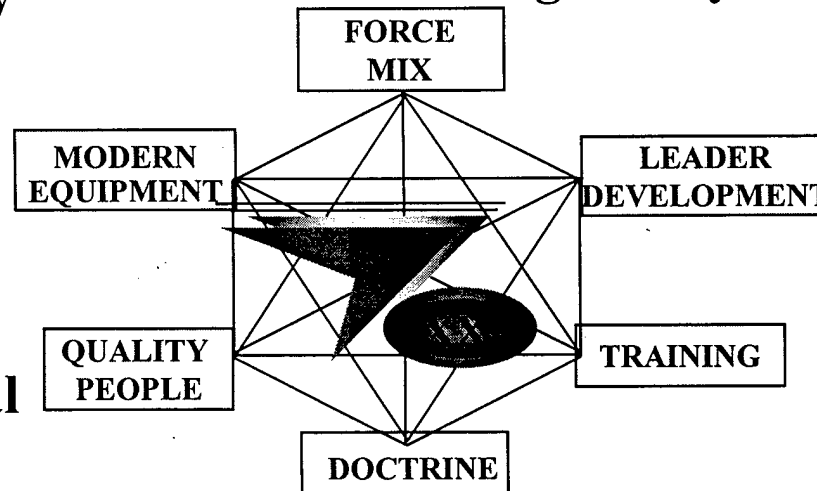- Continue CP design analysis

LEADER DEVELOPMENT
- CTSF Key
- Digital Staff Drills (STAFF EX)

TRAINING
- Train & Experiment simultaneously
- CTSF is fundamental
- Digital vs. non-digital
- Expand simulation drivers

SOLDIERS
- Establish a digital MOS
- Provide assignment stability

DOCTRINE
- Emerging TTPs
- Non-digital unit integration
- Two doctrinal sets?

FORCE MIX

MODERN EQUIPMENT

LEADER DEVELOPMENT

QUALITY PEOPLE

TRAINING

DOCTRINE

81

4th Infantry Division
"Steadfast and Loyal"